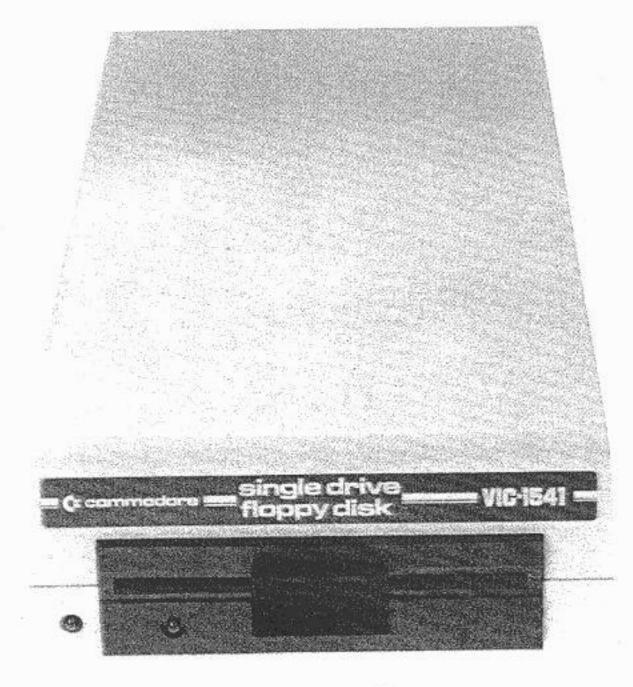
Commodore Single Disk Drive

Technical Manual

Model 1540/1541





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Chapter One

1.1 Scope

In this chapter, a desciption is made of the proceedures necessary for servicing the Model 1540/1541 Floppy Disk Drive.

1.2 Unpacking

Special care should be exercised during unpacking not to damage the unit.

Unpacking proceedures are as follows:

- a) Remove cardboard sleeve from styro-foam box
- b) Open 'styro-foam' box and remove drive
- c) Check the drives front door for proper operation

1.3 Protection against noise

A week signal from the media is detected in the head section of the drive. Hence, do not install the drive near a TV set or other areas where electromagnetic noise is generated. (i.e. motors, air-conditioners, etc)

1.7 Input/Output Cable

The length of the cable between the host and the drive (between the host and the last drive when the drives are daisy chained) should not exceed 5 meters (16 feet).

1.8 DC power source

The drive is powered by a internal power supply providing the drive with +12V and +5V.

1.9 Initial inspection

The drive can be briefly inspected for its operation by the following proceedure. Install the drive, connect the power and I/O cables. Turn drive on and make sure the front panel power lamp is on. Proceed to step 2.2.

1.10 Outline of functions

The 1540/1541 Minifloppy Disk Drive mechanism is composed of the data read/write head, track positioning mechanism, spindle drive mechanism and eject mechanism.

1.11 Read/Write Head

The Read/Write head uses a glass-bonded, ferrite/ceramic head. Track-to-track erasing is accomplished by the straddle erase method. The surface of the Read/Write head is mirror-ground to minimize weear of the head and media. Also, the head is desighned in such a way that the maximum signal can be obtained from the media surface.

1.12 Track positioning mechanism

Positioning of the Read/Write Head is accomplished by a stepping motor and steel belt. The stepping motor rotates clockwise or counter-clockwise by two steps per track. The control circuit on the logic board selects the direction and number of step to the desired track.

1.13 Spindle drive mechanism

The spindle drive motor operates on 12 VDC and turns the spindle, through a belt drive, at 300 revolutions per minute. The speed of the drive motor is controlled by a feedback signal from a tachometer which is housed in the drive motor assembly. The feedback signal controls a servo amp that supplies the 12 VDC drive current.

1.14 Eject mechanism

When the media is inserted in the Disk Drive and the door is closed the media is clamped by the spindle and hub. At this time the ejector mechanism is loaded by the insertion of the disk and locked. When the door is opened, the ejector mechanism is unlocked and the media pops out of the door.

2.1 Mechanism Explanation

The 1540/1541 mechanism is installed in the system horizontally, however the drive will fuction if mounted vertically. The mechanical parts of the drive include an aluminum chassis, a stepping motor, head positioning assembly, drive motor, a hub and spindle assembly for centering and retaining the media during operation. The magnetic head is of a glass ceramic construction.

2.2 Function explanation

The drive is itself an independent memory device. The drive is composed of a media clamp rotating mechanism, ahead positioning mechanism and an eject mechanism. When the front door opens, the media can be inserted. All positioning operation excluding insertion and removal of the media are controlled by the internal guide mechanism. Closing the front door causes the media clamp mechanism to operate. Two operations are performed in the following order:

- a) The media is centered.
- b) The media is clamped and retained between the spindle and the hub.

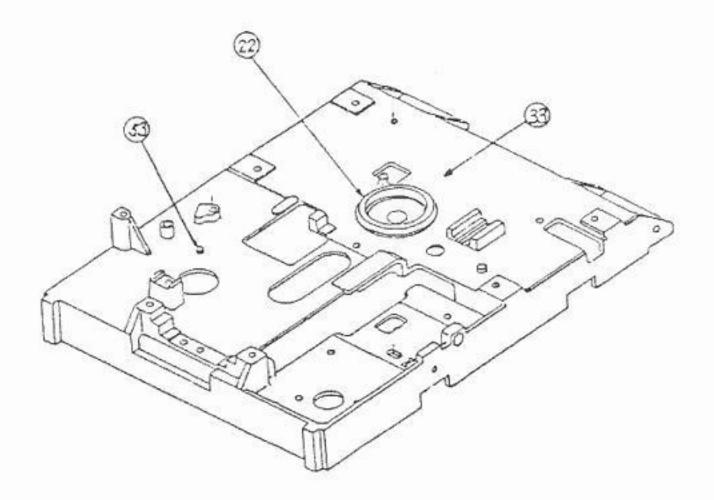
The spindle and hub rotate at 300 r.p.m. through a closed-loop control circuit employing a D.C. motor/tachometer. It is important that the relationship between the head and the media is maintained correctly during operation. For this purpose, a pressure pad is used to hold and press down the media(about 12g) from the opposite side of the head, to maintain the correct contact with the head. This head assembly is coupled by a metal band to a four phase stepping motor the performs the track positioning. One step of the stepping motor corresponds to a 1/2 track movement. Use of a high-speed stepping motor and metal band drive, this series of disk drives can perform access operations at a very high speed.

2.3 Assembly Proceedure

- 2.3.1 The housing assembly; install the eject pin and the spindle.
- 2.3.2 The housing assembly; on the reverse side install the spindle pulley.

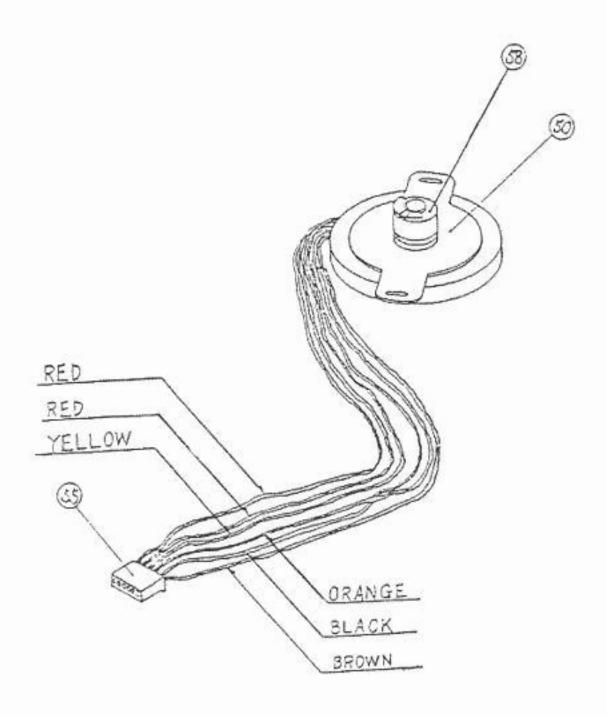
2.3.3 FIG 1, The housing unit.

art	Desciption
22	spindle
33	housing assembly.
53	eject pin



- 2.3.4 The stepping motor assembly; install the stepping pulley.
- 2.3.5 FIG 2, The stepping motor unit

Part	Description
50 55	stepping motor assembly connector housing
58	stepper pulley



- 2.3.6 The D.C. motor assembly; install the motor pulley.
- 2.3.7 FIG 3, D.C. motor and control PCB

art	Description
44	motor control PCB
48	D.C. motor
51	connector housing
59	D.C. motor pulley

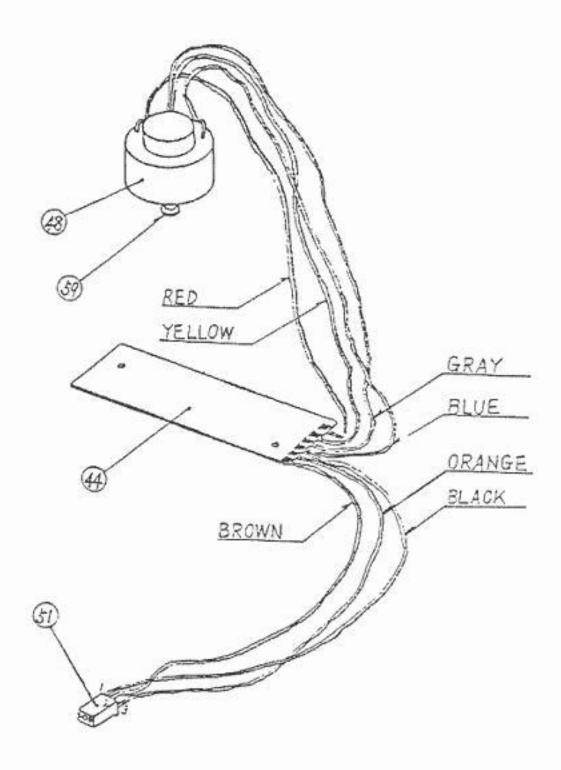
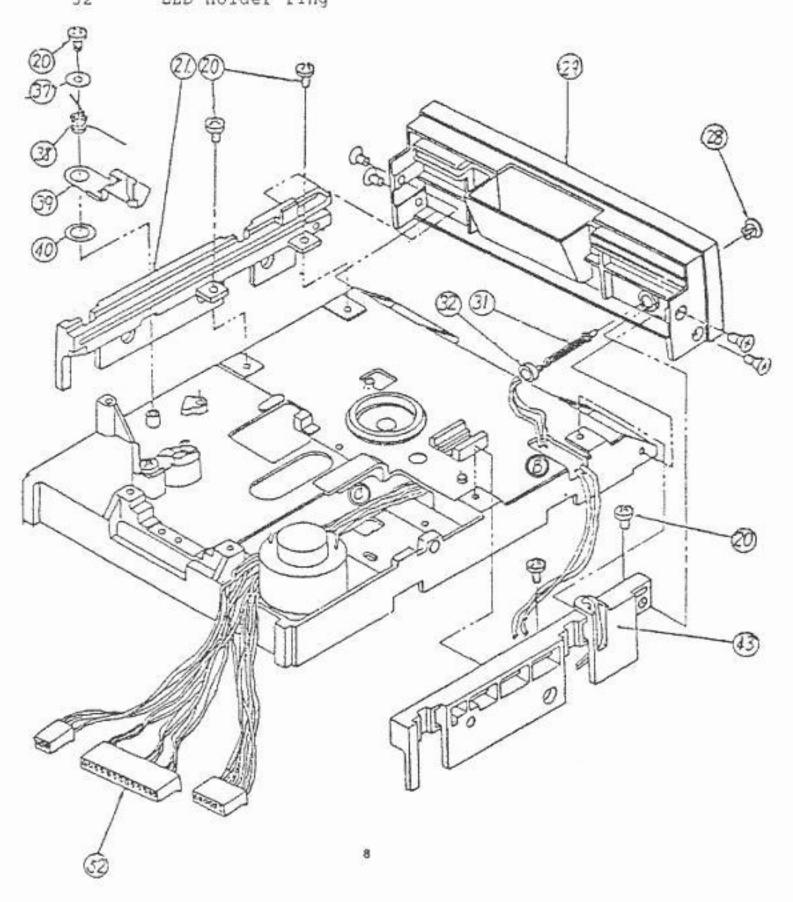


FIG. 6

Part	Description	Part	Description
20	binder screw	37	washer
21	diskette guide	38	eject spring
28	LED clamp	39	eject plate
29	front panel	40	slider
30	Flush screw	43	diskette guide
31	LED assembly	52	connector housing
32	LED holder ring		20000000000000000000000000000000000000



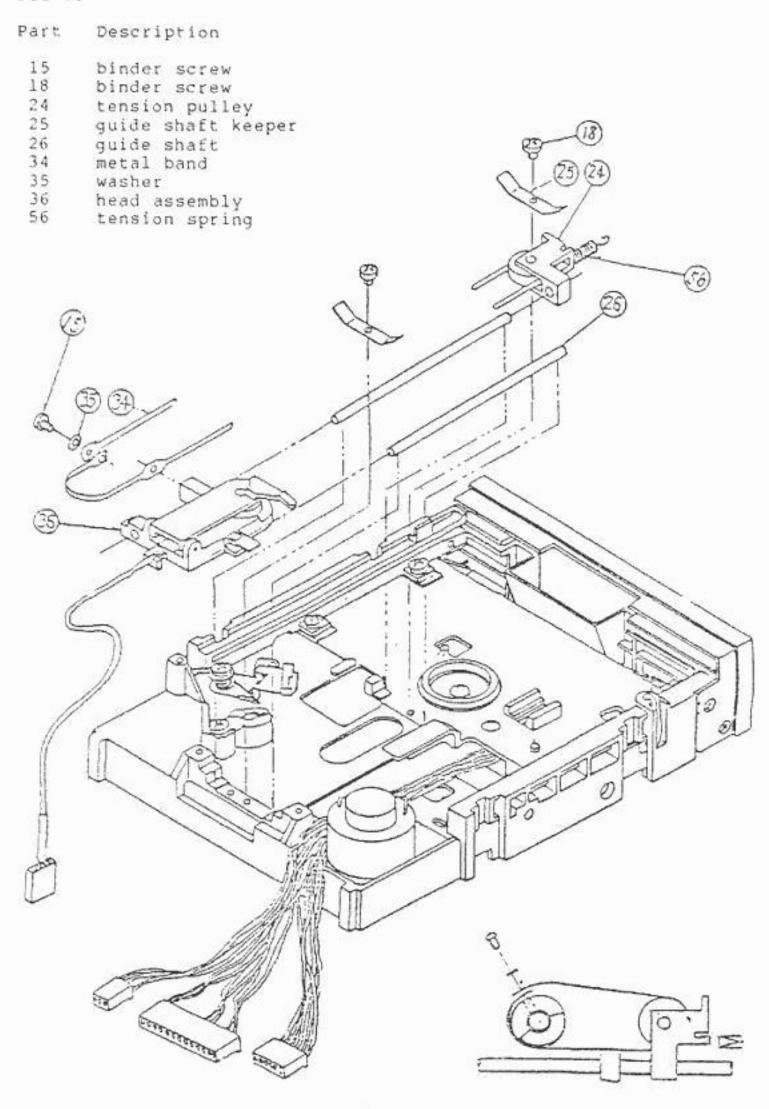
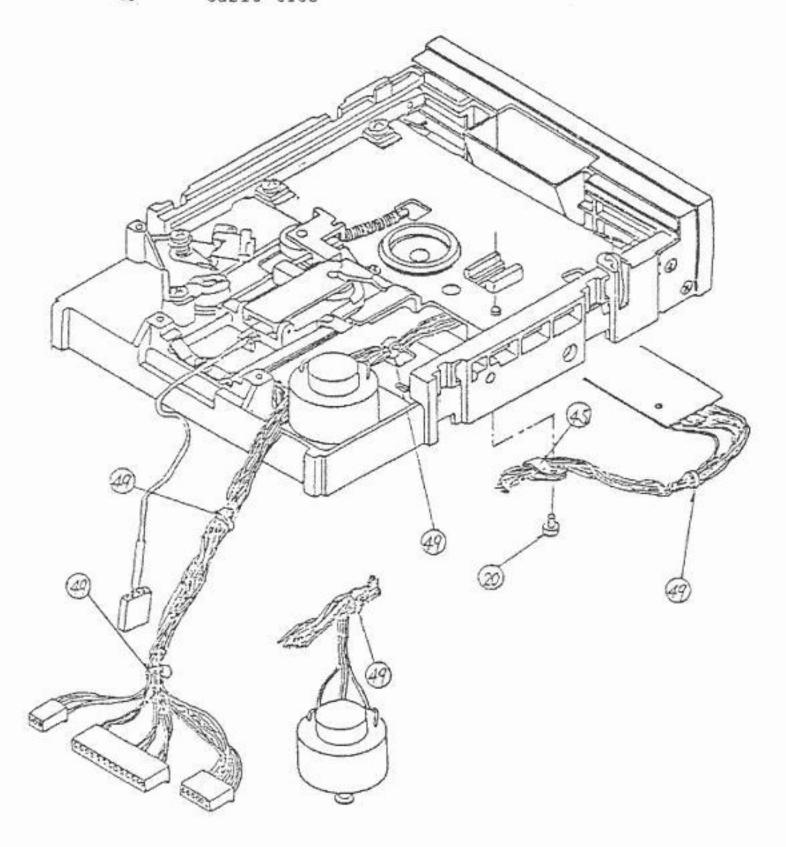
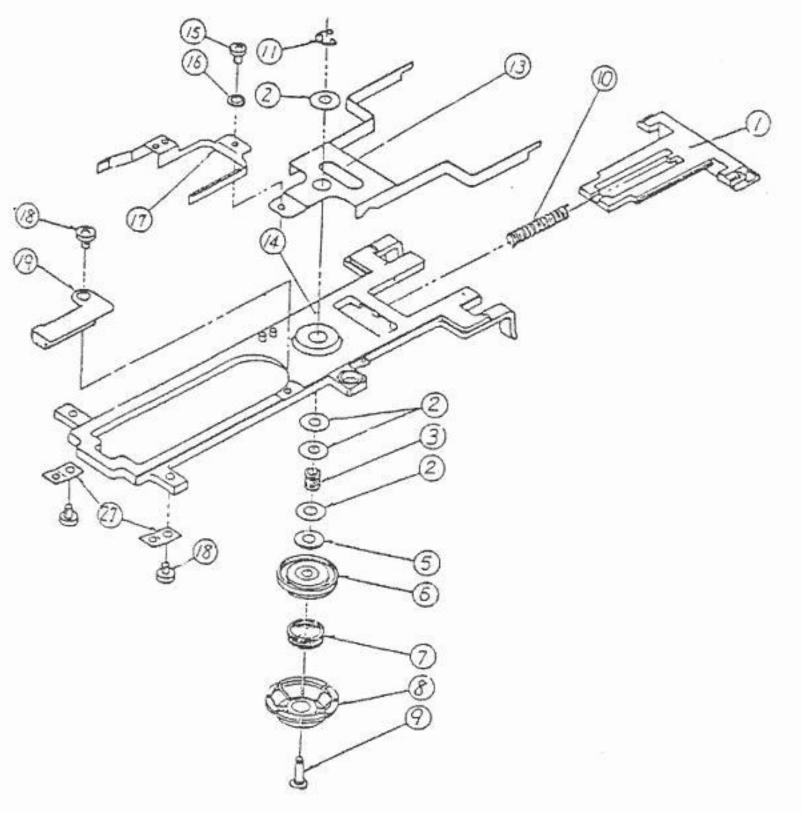


FIG 8

Part	Description
20	binder screw
45	cable clamp
49	cable ties

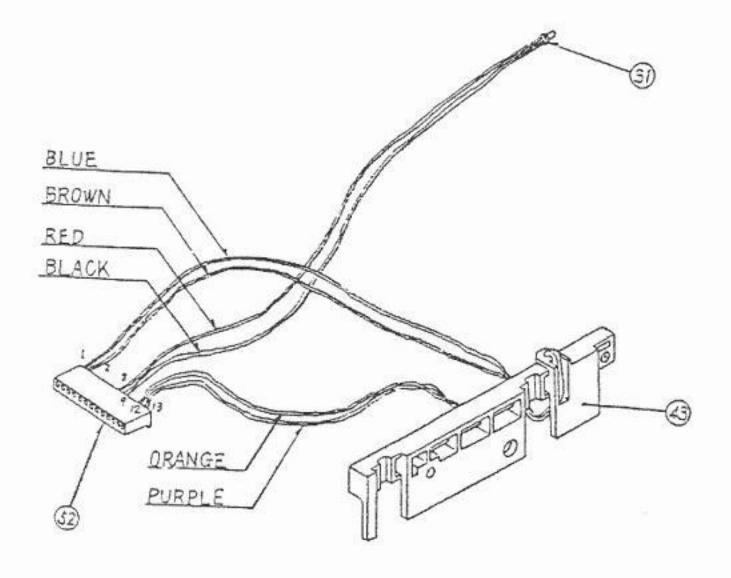


Part	Description	Part	Description
1	door assembly	13	hub support
2	collar	14	hub frame
3	clamp spring	15	binder screw
5	thrust washer	16	spring washer
б	collet assembly	17	arm support assembly
7	hub spring	18	binder screw
8	hub	19	pad plate assembly
8 9	hub shaft	27	hinge spring
10	door spring	60	collet
11	E-washer	61	collet bearing



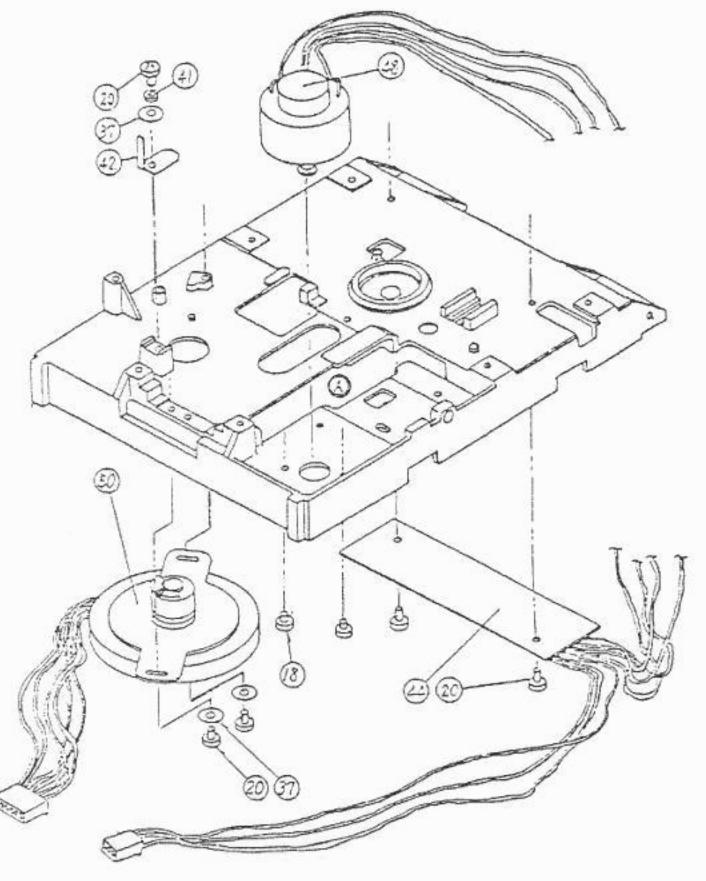
2.3.8 FIG. 4, Diskette guide, LED assembly and connector housing.

art	Description
31	LED assembly
43	diskette guide
52	connector housing



- 2.3.9 Secure the D.C. motor from the reverse side of the housing assembly with two screws.
- 2.3.10 Put the motor control PCB into hole 'A' and serure it with two screws.
- 2.3.11 Secure the stepping motor with two screws.
- 2.3.12 Secure the carraiage stopper with a screw.
- 2.3.13 Install the connector housing '52' into the hole 'B' and remove through hole 'C'.
- 2.3.14 Sercure the two diskette guides '21' and '43' with two screws each.
- 2.3.15 Install the LED holder in the front panel.
- 2.3.16 Insert the LED assembly into the LED holder ring.
- 2.3.17 Install the led into the LED holder, then push the LED holder ring onto the LED holder.
- 2.3.18 Attach the front panel with four flush screws.
- 2.3.19 Secure the eject plate with a screw.
- 2.3.20 Wind the metal band around the tension pulley.
- 2.3.21 Insert the guide shafts into the head assembly. Install the tension pullet as shown in figure 8
- 2.3.22 Secure the guide shaft keepers by two screws each.
- 2.3.23 Wind the metal band around the stepper pulley and secure it with a screw to the stepper motor pulley.
- 2.3.24 Hook the spring to the tension pulley and install unit in the slot in the housing assembly.
- 2.3.25 Hook the opposite end of the spring to the housing assembly.
- 2.3.26 Fasten cable ties to the cables.
- 2.3.27 Secure the cable clamp with a screw as shown in FIG 8.
- 2.3.28 Secure the arm support assembly with a screw to the hub support.
- 2.3.29 Insert the hub shaft into the hub, the hub spring, the collet assy, the thrust washer, the collar, the clamp spring and two collars.
- 2.3.30 Insert the hub shaft into the frame and the hub support and fasten it at the E-washer.
- 2.3.31 Set the door assembly and the door spring at the hub frame.
- 2.3.32 Secure the pad plate assembly with a srew to the frame at the location shown in FIG 9
- 2.3.33 Secure the two hinge springs with two srews each.

18 binder screw 20 binder screw 37 washer 41 spring washer 42 carriage stopper 44 motor control PCB	
37 washer 41 spring washer 42 carriage stopper 44 motor control PCB	
41 spring washer 42 carriage stopper 44 motor control PCB	
41 spring washer 42 carriage stopper 44 motor control PCB	
42 carriage stopper 44 motor control PCB	
44 motor control PCB	
50 stepping motor assembl	y

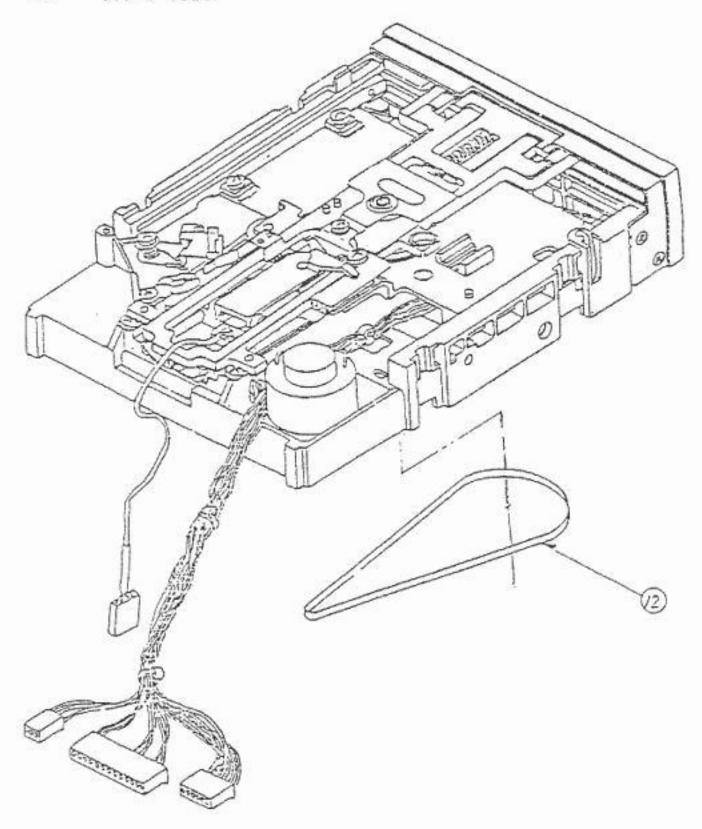


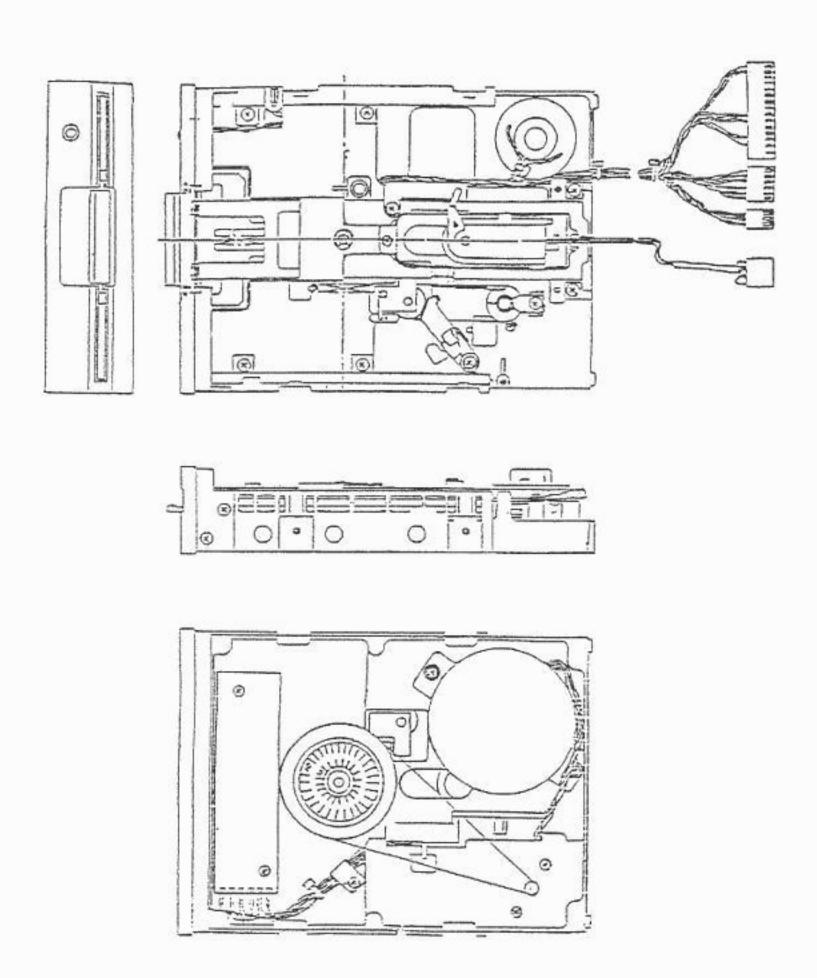
- 2.3.36 Place the belt over the D.C. motor pulley and partially on the spindle pulley.
- 2.3.37 By turning the spindle pulley the rest of the belt will seat completely on the pulley.

2.3.38 FIG 10

Part Description

12 drive belt





3.1 Description

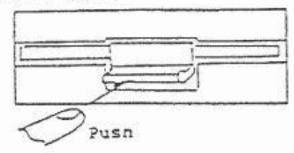
Since the disk drive is placed under direct control of the interface and power supply, no special proceedure is required for starting and operation.

3.2 Operating proceedure

Make sure that the power supply and I/O connector are connected, then insert the disk in accordance with the following proceedure.

3.2.1 Inserting the media

- a) Apply DC voltage to the drive.
- b) Open the front door.



- c) With the index hole and write protect notch being placed on the left side of the jacket, push the media in, when the media is fully inserted the loacking action can be felt.
- d) Push the door downward and close the goor so that it is locked firmly

3.2.2 Extracting the media

- a) Open the front door. The media will pop out automatically to a position where you can extract it easily.
- b) For protection of the recorded data, the media should always be stored in its envelope.
- c) Close th door of the drive.

3.3 Media handling proceedure

Since the media has been sudjected to awrite operation i naturally contains imformation, adequate attention must be paid to its handling.

In order to extend the life of the media and eliminate the causes of errors, it is best to take the following steps:

- a) When writing something on the jacket label of the media, do not use a ball point pen or pencil, use felt-tipped pens.
- b) Do not hold the edges of the media with paper clips or the like.
- c) Do not touch the media exposed in the slot of the jacket.
- d) Do not attempt to clean the media.
- e) Do not keep the media in the areas where there is a strong magnetic field.
- f) The diskette should be kept in its jacket.
- g) Special care should be exercised so that the media is kept free from liquid, dust, metal particles, etc.
- h) Take care not to exceed the following environmental conditions:

Temperature 10 to 51°C Relative humidity 8 to 80 %

3.4 Seek error

Few seek errors will be experienced due to the low stepping rate, less than 12 msec/track. In case of a seek error, however, recalibration of track position can be performed. This can be done by repeatedly stepping the head towards track 0 untill track 0 status is detected.

3.5 Write error

In order to check the quality of the data, perform a read-afterwrite operation. When data can not be read, rewrite that track and sector once again.

When data can not be read after four such operations track is defefective.

3.6 Read error

What happens quite often when performing a read operation is a soft error. A soft error is defined to be a read error which is recoverable by making ten or less read operations. However, in the event no recovery is made in ten operations, move one step from the track in the same direction as the previous step, then return one step. If this fails to read the data, this error is unrecoverable.

3.7 Description

Periodic maintenance is indispensable so that this type of peripherial equipment operates properly. It is particularly important to periodically clean the head and check the load pad. Repairs and adjustments should be made in accordance with the proceedures below.

3.8 Head Cleaning

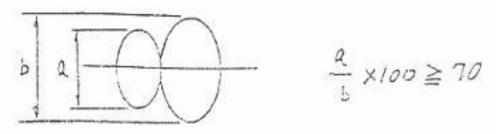
Check for excessive dust or magnetic oxide on the load pad. With the door open (do not move upper arm greater that what is provided by opening the front door) clean head with lint free cotton cloth or 'Q-tip' in 91/ isopropyl alcohol. Wipe the head carefully to remove any dust and/or oxide.

3.9 Adjustment proceedure

In case of a malfuction or parts replacement, make the following adjustments. In order to maintain the interchangability of the media between drives it is desirable check each drive against a master alignment diskette.

3.9.1 Track adjustment (radial track)

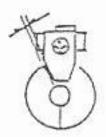
- a) Connect I/O cable an restore the head to track 00.
- b) Insert a 48tpi alignment diskette and close the door.
- c) Connect two oscilloscope probes to pin 1 and pin 14 of UH6 (592), set oscilloscope to angbraic add at 50mV/cm and 200 msec/div.
- d) Load the head and allow it to seek to track 16, check for cats eye wave form. When the cats eye lobe ratio is 70/ or less, loosen the stepping motor mounting screws, turn the stepping motor to obtain the lobe ratio of 90/ or less.
- e) After allowing the head to track 34, return it to track 16 and recheck the cats eye. If the ratio is correct tighten the stepping motor screws.



Cats eye lobe ratio

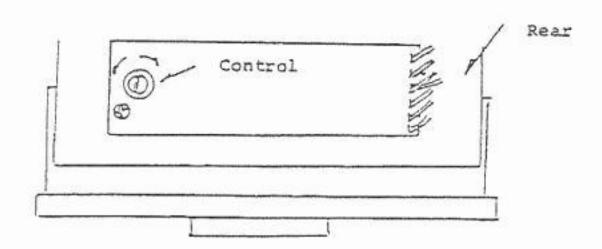
3.9.2 Track 00 adjustment

The drive is not provided with a track 00 sensor. To adjust, let the head over step in the track 00 direction and adjust the liniter postion to obtain a clearance less than 0.25mm (0.0linches).



3.9.3 Speed control

Turn the variable resistor on the motor control board untill the tachometer disk on the spindle pulley appears stationary when viewed with a fluorescent lamp.



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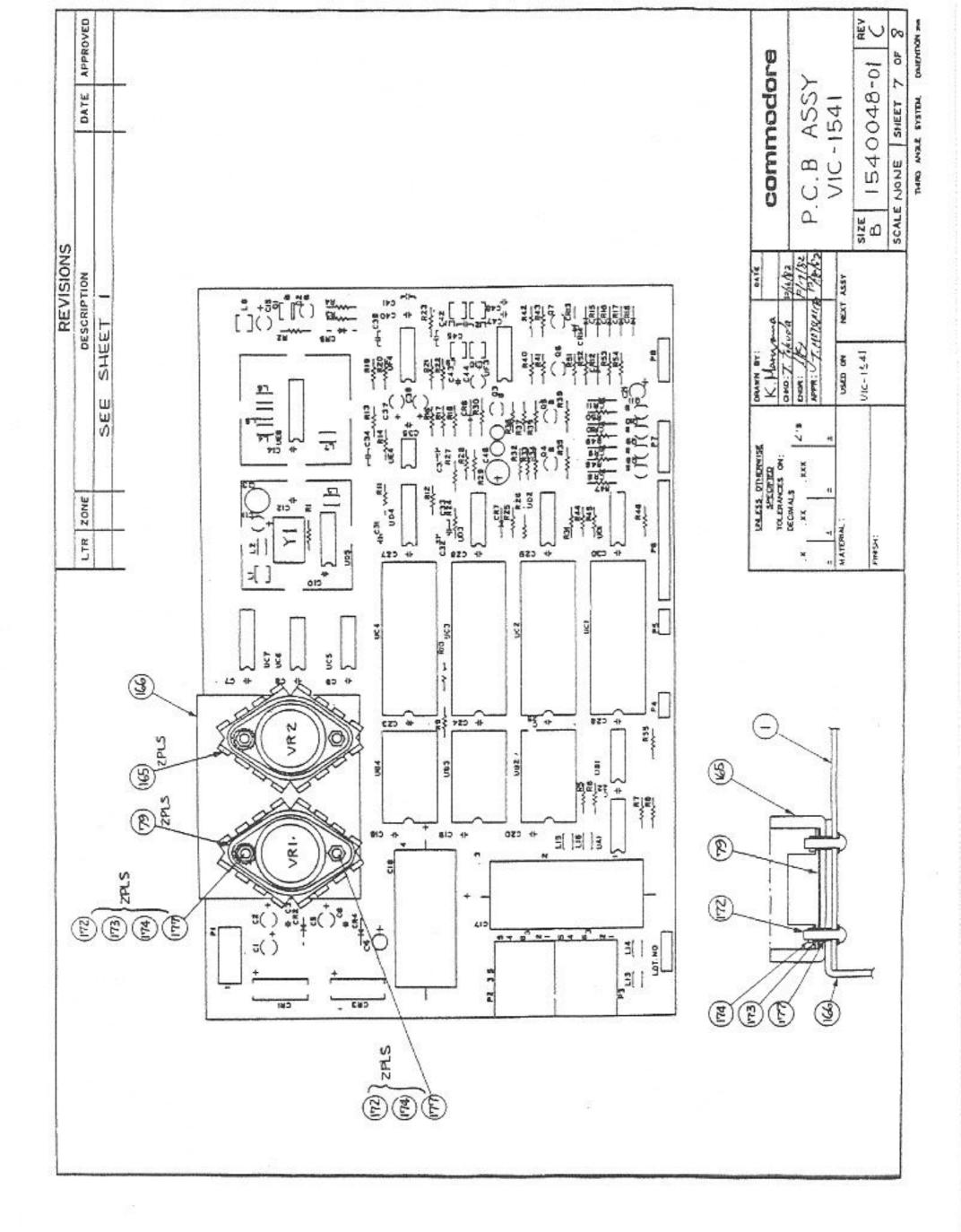
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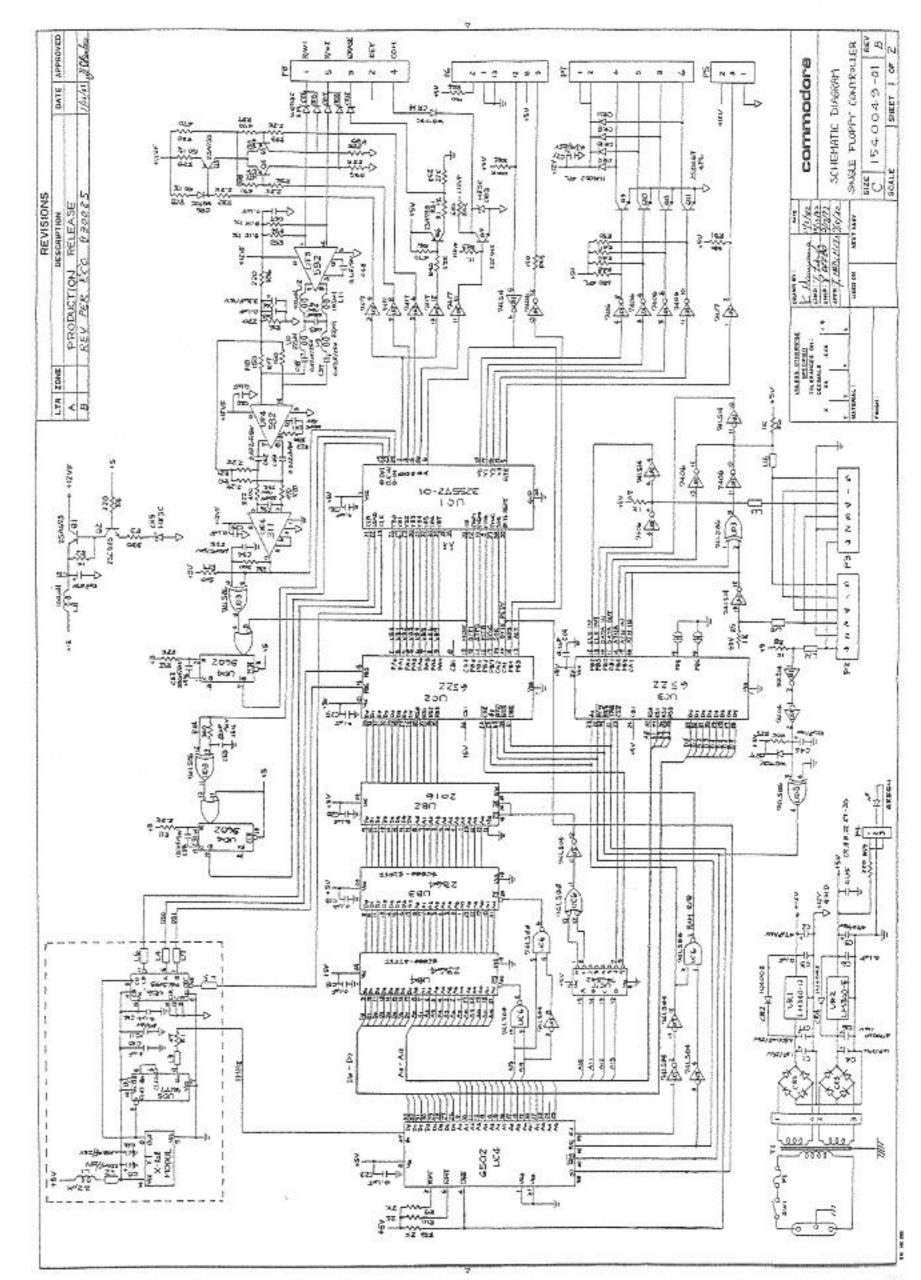
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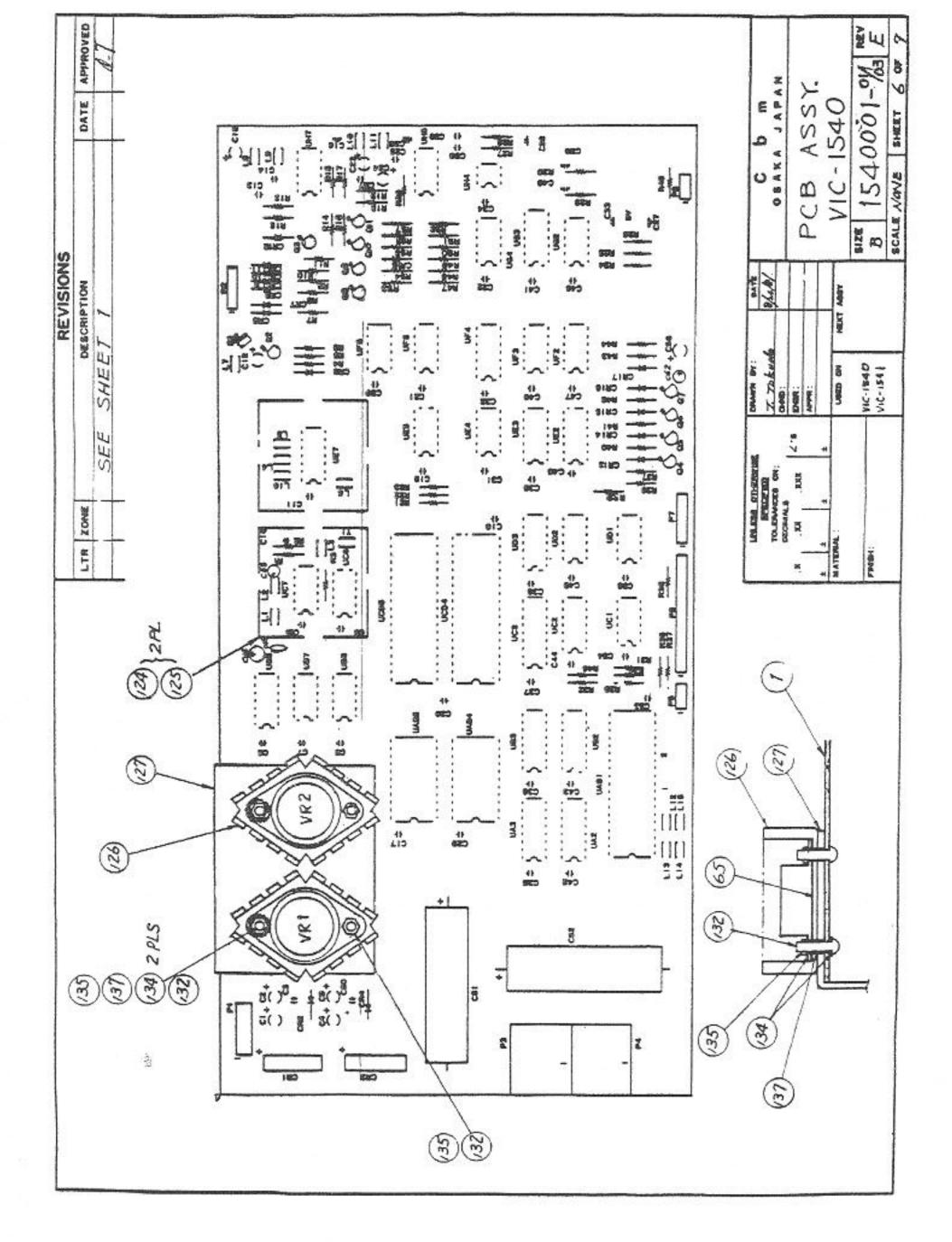
11-01 PCB ASSY VIC-1540 (ECC) UL B V/20 ADDED SWOT 6 OF 7 (FOF FCC) TT	PART NO.	DESCRIPTION	A Stort PRODITIONS FFEET
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11 - O3 PCB ASSY VIC-1541(FCC) UL E Month ADDED ITEM 6. TT	1		8/3/8 ADDED DASH -03 AND -04 27
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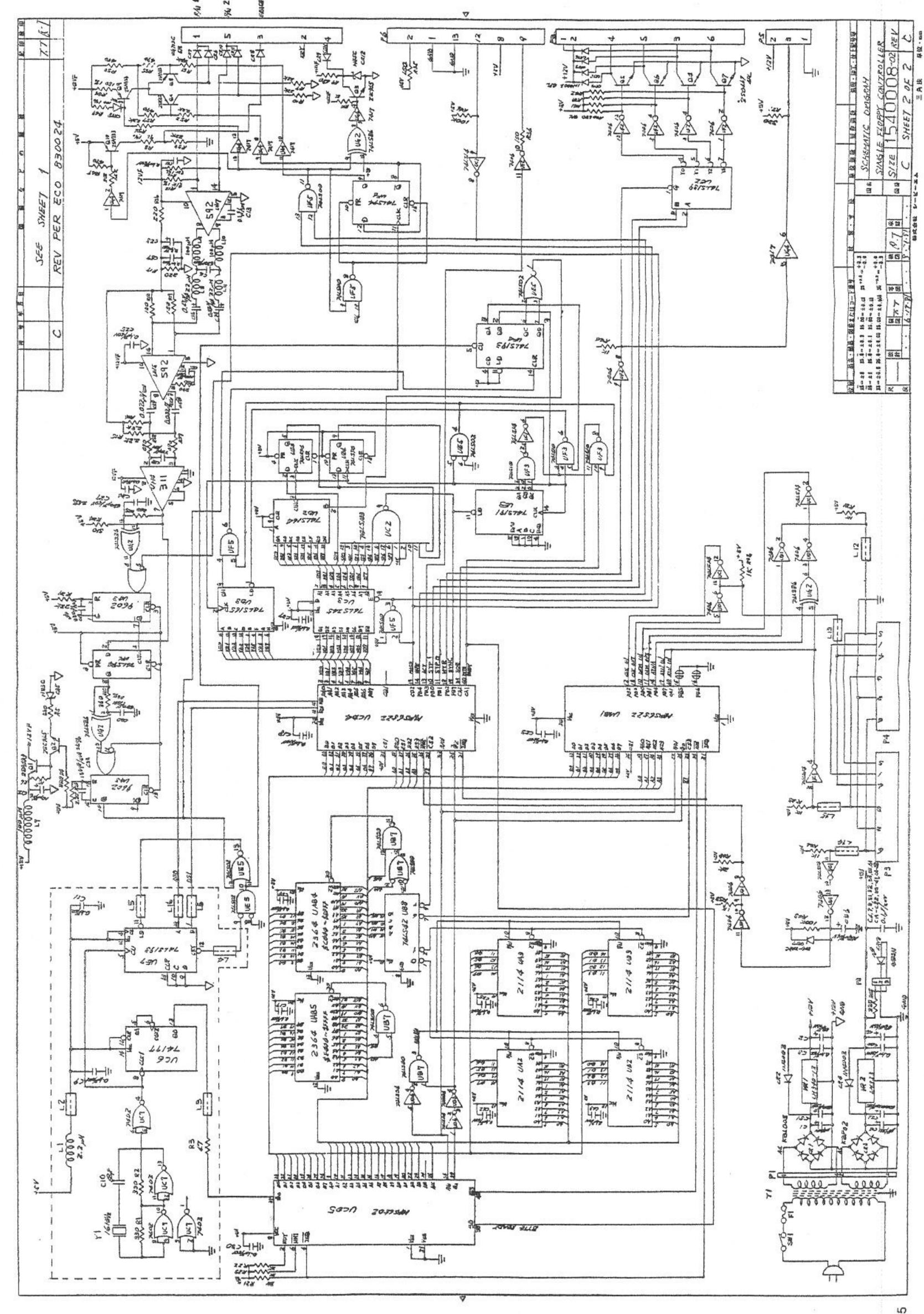
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	2	2	12	901521-01	746500	2-NAND	U87, UFS	
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84 900402-15 TANTALIUM 104F 25V C12 85 900010-51 TANTALIUM 3.3 MF 25V C23 86 900010-52 CERAMIC 68PF 50V C10 87 900010-52 CERAMIC 68PF 50V C26 87 900010-54 CERAMIC 6.000PF 50V C26 90 900010-25 V 0.1 MF 50V C26 90 900010-25 V 0.1 MF 50V C26 90 900010-20 V 0.1 MF 10V C26 90 900010-20 V 0.1 MF 10V C26 90 900010-20 CERAMIC 0.022 MF 50V C26 90 900010-20 CAP TANTALIUM 4.1 MF 10V C45 90 900402-17 CAP TANTALIUM 4.1 MF 10V C45 90 900405-02 CAP CERAMIC 0.033 MF 25V C64 90 900550-26 RESISTOR, CARBON MW 5% 470 R1	1 284 900402-15 TANTALIUM 334F 25V C23 1 28 900010-54 CERAMIC A8PE 50V C23 2 282 900010-54 CERAMIC C30 ±5% 3 38 900010-55 330PE 50V C30 ±5% 4 4 4 4 4 4 4 4 4		2	-	m	900100-32	1 MF	c1.C4	
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3 89 900010 - 54 1000PF 50V C18, C27, C50 1 90 900010 - 25 1 0000PF 50V C28 2 92 900010 - 20 1 ELECTROLYTIC 100 LF 6 V C38, C59 2 93 900010 - 40 ELECTROLYTIC 100 LF 6 V C38, C59 2 94 8 900402 - 17 CAP. TANTALIUM 0.47 LF 150 V C45, C54 94 9 900402 - 17 CAP. TANTALIUM 0.47 LF 150 V C45, C45 95 8 900402 - 17 CAP. TANTALIUM 0.47 LF 150 V C45, C45 95 9 900402 - 17 CAP. TANTALIUM 0.47 LF 150 V C45, C45 95 9 900402 - 18 CAP. TANTALIUM 0.033, LF 25 V C45 95 9 900405 - 0.02 CAP. C48 BON KW 5% 3001 Ray, Ray, Ray, Ray, Ray, Ray, Ray, Ray,	3 38 900010-34 680PF 50V C16, C77, C50 25% 1 90 900010-25 1000PF 50V C26		1	-	90	1	330PF 5mV	C28, C49	
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93 900100-40 FLECTROLYTIC 100µF16V CS6 ±20 94 8 900402-17 CAP. TANTALIUM 0,47µF 16V CKS,CR\$ ±20 1 95 8 900402-14 CAP. TANTALIUM 4.7µF 126V CKS CKS 1 90 900402-14 CAP. TANTALIUM 4.7µF 126V CKS CKS CKS 1 90 900465-02 CAP. CERAMIC 0.033µF 25V CKS	1 193 900100-40 ELECTROLYTIC 100µE & V C56 ± 20% 1 2 2 2 2 2 2 2 2 2		2	-	2	1	0.022#F	CSB. CSP	
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96 B 900465-02	1 96 B 900402 - 14 CAP. TANTALIUH		-	_	+-	900402-	TANTALIUM 4.7ms/2	292	
97 B 900465-02	1 1 97 B 900465-02 CAP. CERAHIC 0.033-15/25V C64 2 2 98 B 90/550-108 RESISTOR, CARBON MAY 5% 470 R30 4 4 100 B 90/550-89 RESISTOR, CARBON MAY 5% 470 R3.36 5 5 02 90/550-89 RESISTOR, CARBON MAY 5% 1200 R4.6.0.45 5 5 02 90/550-89 RESISTOR, CARBON MAY 5% 1200 R1.5.2.0.37 5 5 02 90/550-30 R1.5.2.0.37 6 6 03 90/550-38 S100 R3.4.3.38 7 1 100 90/550-31 S100 R3.4 5 5 02 90/550-31 S100 R3.4 6 6 02 B 90/550-31 S100 R3.4 7 1 100 90/550-31 S100 R3.4 7 1 1 100 90/550-31 S100 R3.4 7 1 1 100 90/550-31 S100 R3.4 7 1 1 1 100 90/550-31 S100 R3.4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				-	900402-	TANTALIUM IMP	C63:	
2 98 B 90 /550 - 108 RESISTOR, CARBON KW 55 3600 RW, K30 1 99 B 90 /550 - 56 RESISTOR, CARBON KW 55 470 R3 4 00 B 90 /550 - 89 RESISTOR, CARBON KW 55 1500 RW, K3 5 00 90 /550 - 14 6 00 90 /550 - 38 7 00 /550 - 38 7 00 /550 - 38 8 00 90 /550 - 38 7 00 /550 - 38 8 00 90 /550 - 38 8 00 90 /550 - 38 8 00 90 /550 - 38 8 00 8 90 /550 - 38 8 00 8 00 /550 - 38 8 00 8 00 /550 - 38 8 00 8 00 /550 - 38 8 00 8 00 /550 - 38 8 00 8 00 /550 - 38 8 00 8 00 /550 - 38 8 00 8 00 /550 - 38 8 00 8 00 /550 - 38 8 00 8 00 /550 - 38 8 00 8 00 /550 - 38 8 00 8 00 /550 - 38 8 00 8 00 /550 - 38 8 00 8 00 /550 - 38 8 00 8 00 /550 - 38 8 00 8 00 /550 - 38 8 00 8 00 /550 - 38 9 00 /550 - 38 9 00 /550 - 38 9 00 /550 - 38 9 00 /550 - 38 9 00 /550 - 38 9 00 /550 - 38 9 00 /550 - 38 9 00 /550 - 38 9 00 /550 - 38	2 2 98 B 90/550-08 RESISTOR, CARBON KW 5% 360A Ray, K30 4 4 4 00 B 90/550-89 RESISTOR, CARBON KW 5% 47A R3 4 4 00 B 90/550-89 RESISTOR, CARBON KW 5% 47A R3 5 5 02 90/550-89 RESISTOR, CARBON KW 5% 150A R3, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10			1	-	900465	CERAMIC 0.033 xF/2	290	
1 99 B 901550-56 RESISTOR, CARBON 14W 5% 470 R36.36 4 00 B 901550-89 RESISTOR, CARBON 14W 5% 1500 R6.836.36 4 00 B 901550-62 R851570R, CARBON 14W 5% 1500 R6.836.36 5 02 901550-14 3300 R1.8.5.20.37 6 03 901550-38 5100 R24 5 05 901550-31 5100 R24 6 08 B 901550-18 RESISTOR, CARBON 14W 5% 2.2 KD R21.823.838 6 08 B 901550-18 RESISTOR, CARBON 14W 5% 2.2 KD R21.823.838	1 1 99 8 901550-56 RESISTOR, CARBON 14W 5% 470 R9.35.36 4 4 00 8 901550-89 RESISTOR, CARBON 14W 5% 1500 R9.35.36 5 5 02 901550-14 5 5 02 901550-14 6 6 03 901550-38 8100 R34 700 R34-R42 5 5 02 901550-38 8100 R34 700 R34-R42 700 R34-R42 700 S50-18 RESISTOR CARBON 14W 5% 22K0 R21-R23-R38 70 S 08 8 901550-18 RESISTOR CARBON 14W 5% 22K0 R21-R23-R38 70 R3 NO R3 R3 NO R3	-	0	-	-	90/550	RESISTOR, CARBON KW 5%	RNC, K30	
4 100 B 901550-89 RESISTOR, CARBON 44W 516 150.0 Rm.9.35.36 4 101 A 901550-52 Rm.9.35.36 5 102 901550-14 3300 Riv.5.20.37 1 100 901550-38 5100 Ret 5 100 901550-38 5100 Ret 6 100 901550-01 Resistant 1 K.O. Rm.9.35.44.57 6 100 8 901550-53 RESISTOR, CARBON 44W 516 22 K.O. Rm.9.35.42.50 6 100 B 901550-18 RESISTOR, CARBON 44W 516 22 K.O. Rm.9.35.42.50	4 4 100 B 901550-89 RESISTOR, CARBON 14W 5% 1500 Res, 6.17.45 5 5 02 901550-52 4200 Res, 6.17.45 5 6 03 901550-58 570R CARBON 14W 5% 1500 Res, 6.17.45 1 1 100 901550-38 5700 Res, 6.17.87.88458 5 5 02 901550-38 5700 Res, 6.17.31-34,4458 6 6 08 B 901550-18 RESISTOR CARBON 14W 5% 2.2 KD Res, 6.18.51.69 6 6 08 B 901550-18 RESISTOR CARBON 14W 5% 2.2 KD Res, 6.18.51.69 6 6 08 B 901550-18 RESISTOR CARBON 14W 5% 2.2 KD Res, 6.18.51.69 6 6 08 B 901550-18 RESISTOR CARBON 14W 5% 2.2 KD Res, 6.18.51.69 6 6 08 B 901550-18 RESISTOR CARBON 14W 5% 2.2 KD Res, 6.18.51.69 6 6 08 B 901550-18 RESISTOR CARBON 14W 5% 2.2 KD Res, 6.18.51.69 6 6 08 B 901550-18 RESISTOR CARBON 14W 5% 2.2 KD Res, 6.18.51.69 6 6 08 B 901550-18 RESISTOR CARBON 14W 5% 2.2 KD Res, 6.18.69 6 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-	-	-	901550	RESISTOR, CARBON YAW 5%.	PS.	
4 .01 h 9015.50-52 4 .02 mmm 5 .02 mm 9015.50-14 3300 mm R1x,3.20,37 6 .03 mm 9015.50-38 470.1 mm R2 .00 7 .02 mm 9015.50-31 R2 .00 R2 .00 8 .06 mm 9015.50-01 R .07 mm R .07 mm R .07 mm 4 .07 mm 9015.50-18 RESISTOR CARBON MW 5% 2.2 KD Remission	4 4 4 4 5 6 7		4	-	-	90/550-	RESISTOR CARBON YAWSH	RR.19,35.36	
5 d2 901550-14 3300 R1.E.5.20.97 4700 R24 4700 R24 51000	5 5 d2 90/550-14 3300 R1,5,5,20,37 6 6 d3 90/550-38 5/100 R2+ 1 1,00d 90/550-38 5/100 R2+ 5 5 d5 90/550-38 6/80 R9,R39-R42 8 8 lob 90/550-01 1 KD R4,II,31-39,44,58 1 KD R4,II,31-39		10	_		90/550-	-	R4,16,19,45	
6 103 901550-58 4701 RTHRR30,557 1 104 901550-31 5 05 901550-01 8 106 901550-01 4 107 901550-53 6 108 B 901550-18 RESISTOR CARBON KW 5% 22K1 MILES 1836	6 6 43 901550-58 5100 R24 1 1 100 901550-38 5100 R34 8 8 106 901550-01 1 KB R4,11,31-39,44,58 4 4 107 1 901550-53 1 1 KB R4,11,31-39,44,58 6 6 08 8 901550-18 RESISTOR, CARBON WW 58, 22KB AND SATE SIZE ENGINEERING THE OF SATE SATE		40	-	12	1		R1.8,5.20,37	
1 100d 901550-38 5 05 901550-31 8 106 901550-01 4 107 901550-53 6 108 B 901550-18 RESISTOR CARBON KAW 5th 2.2 K/12 PRINTESS 8	1 1 1 1 1 1 1 1 1 1		9	-	23	1		RZ7, 15, 67, 50, 55, 57	
5 05 901550-31 8 106 901550-01 4 107 901550-53 1 2 KA RE11,31-34,44.58 6 108 B 901550-18 RESISTOR, CARBON 14W 51, 22 KA PRINGE 60	5 5 05 90/550-31 6800 89,89-842 6800 89,89-845 1 KB 80,89-845 1 KB 80,89-845 1 KB 80,89-845 1 KB 80,89-838 1 KB 80,550-53 1 KB 80,80			-	8	1		RZ4	
8 106 901550-01 1 KA RLII.31-39,4458 4 107 901550-53 1 2 KA RZI-RZZ.RZZ 6 108 B 901550-18 RESISTOR, CARBON KAN 5% 2.2 KA MILIARIO.66	8 8 106 90/550-01 1 KA RLIL, 31-34,44.58 4 4 107 1 90/550-53 1 2 KA RZI-KZ3, R38 6 6 108 B 90/550-18 RESISTOR, CARBON KW 5% 2.2KA MILES, 66 8178 8178 ENGINEERING OF R ACCY 110 15 A.O. 17 A.O. 15 A.O. 17 A.O		υ.	_	30	1		R9. K39-R42	
4 107 1 901550-53 1 2 KA RZI-RZI-RZI A 2 KA RZI-RZI-RZI 6 108 B 901550-18 RESISTOR CARBON KIN 5% 2.2 KA MINERIELES	4 4 407 1 90/550-53 1 2 KR R21-K23. K38		8	-	30	1550-	1 KU	R6,11,31-34,44,5	
6 108 B 901550-18 RESISTOR, CARBON KAW 5th 2.2KD DAMERSON	ENGINEERING 170 B 1901550-18 RESISTOR CARBON AW 5% 2.2K12 AM 180. 6418 8128 1111.00.		4	_	100	1550-		R21-K23, R38	
	ENGINEERING DOR ASSY 110 15 AC 11 DATE		9	-	8 6	1550-	CARBON KAW 5%	PA 15,28,51.62.66	

90/550-69 90/550-12 90/550-07 90/550-07 90/550-07 90/751-44 90/751-44 90/751-45 90/751-45 90/751-45 90/751-45 90/751-45 90/751-45 90/751-45 90/751-45 90/751-45 90/751-45

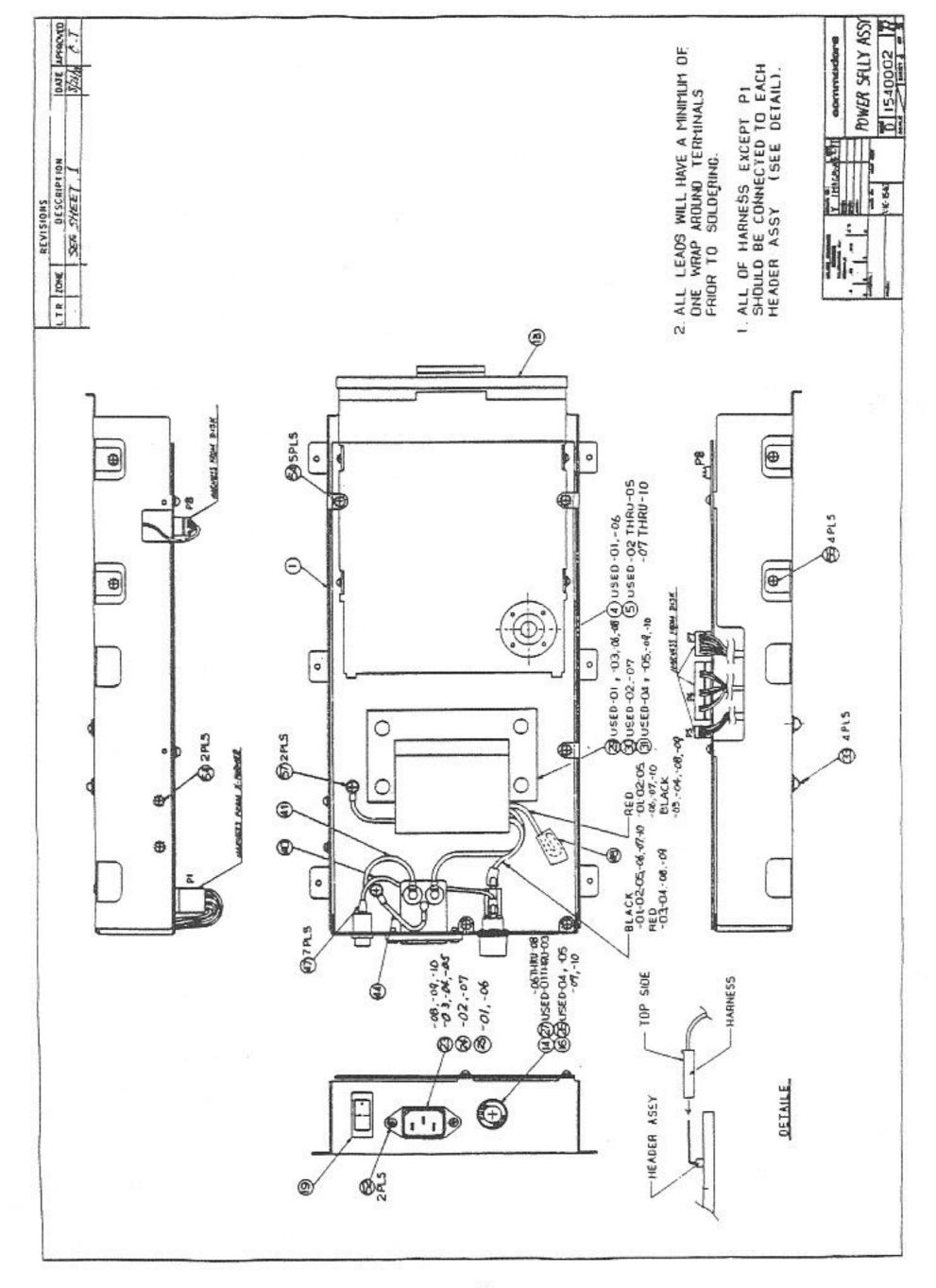




NO.	ESCRIPTION	Pholy PHODINITING HELEASE CHANGED FILTER POWER CONNECTOR PARCEN
1540002 -01	POWER SUPPLY ASSY VIC-1546 UL	
90-	VIC-1541 UL	G 2/8/k3 REVISED PER ECO 830101 90
		4. NO CHANGE RÎY FOR ITEM SA IF USED ITEM 6 OR 7. 3. USE OWLY WHEN USED ITEMB OR 9.
		2. IF ITEM 8 OR 9 ARE USED THEN OTY FOR ITEM 54 WILL CHANGE FROM 7 TO 9 PCS AND USED WITH ITEM 63. I. SHEET 4 \$ 5 OF 5 ARE D-SIZE ASSY DWG. NOTES.
c b m ENGINEERING OSAKA JAPAN	PONER SUFFEY ALT WC-1500 CHARLES	C.S. 17/1/31 1/1 B 1540002 1 or 5

1 0 1540012 POWER CHASSIS SUBSTITUTE FOR ITEM 2 0 251153 POWER CHASSIS SUBSTITUTE FOR ITEM 3 0 251153 POWER CHASSIS SEE ADTS 3 4 8 1540001 - 02 PC B ASST (FCC) UL SUBSTITUTE ER ITE 5 16 1540001 - 03 PC B ASST (FCC) UL USED LOGIC ARMA 6 1540001 - 03 PC B ASST (FCC) UL USED LOGIC ARMA 9 15400048 - 01 PC B ASST (FCC) UL USED LOGIC ARMA 10 1 1 1 1 1 1 1 1 1	PART/DASH NO.	MGTT	's 'a	PART NUMBER	DESCRIPTION	REF. DES	ONTES	
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